

Water-Data Report 2008

01411208 GRAVELLY RUN AT ROUTE 559, AT GRAVELLY RUN, NJ

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°25'38", long 74°42'06" referenced to North American Datum of 1983, Hamilton Township, Atlantic County, NJ, Hydrologic Unit 02040302, on Gravelly Run at County Route 559 (Somers Point Road), 400 ft north from Gravelly Run, 600 ft upstream from mouth, and 700 ft southeast from Gravelly Run Road.

DRAINAGE AREA.--8.63 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 15.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	Baro- metric pressure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 28...	0830	.4	.159	.128	775	10.0	85	4.6	68	3.0	8.2	7	1.00
Feb 05...	0930	1.1	.566	.428	762	9.7	82	3.8	111	11.0	7.6	7	.95
May 15...	0830	1.3	.749	.574	762	8.0	76	4.0	91	21.0	12.4	5	.79
Aug 07...	0800	1.2	.089	.073	757	7.6	79	4.9	64	23.0	16.8	6	.95

01411208 GRAVELLY RUN AT ROUTE 559, AT GRAVELLY RUN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	ANC, wat unf fixed end pt,						Chlor- ide, water, filtrd,	Fluor- ide, water, filtrd,	Silica, water, filtrd,	Sulfate mg/L as SiO2	Residue on evap.		Residue at 180degC wat flt	Ammonia + org-N, water, filtrd,		Nitrate + nitrite water
	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L as CaCO3	mg/L as (90410)	(00940)	(00950)					(00945)	(00945)	(00945)	(00945)	(00945)	(00631)
Nov 28...	.974	.89	6.40	<1.7	12.4	<.12	8.4	6.05	49	1	.17	.022	.15			
Feb 05...	1.00	.56	6.02	--	9.88	<.12	6.8	14.5	55	2	.35	.019	.13			
May 15...	.794	.58	5.28	--	10.6	<.12	6.5	5.89	64	1	.36	.012	.09			
Aug 07...	.872	.77	6.41	<1.7	13.0	<.12	7.8	3.83	43	2	.22	.013	.19			

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ortho- phosphate, water, filtrd,						Phos- phorus, water, filtrd,	Phos- phorus, water, unfiltrd	Total carbon, suspnd sediment	Inor- ganic carbon, suspnd sediment	Organic carbon, suspnd sediment	Organic carbon, water, filtrd,	Arsenic water, filtrd, μg/L (01000)	Arsenic water, unfiltrd, μg/L (01002)	Barium, water, unfiltrd recover- able, μg/L (01007)	
	Partic- ulate nitro- gen, susp., water, filtrd, mg/L (49570)	Total nitro- gen, water, unfiltrd mg/L (00602)	Total nitro- gen, water, filtrd, mg/L (00600)	mg/L as P (00671)	mg/L as P (00666)	mg/L as P (00665)										
Nov 28...	E.02	.31	E.34	E.006	E.007	E.006	.3	<.04	.3	3.6	--	--	--			
Feb 05...	E.04	.49	E.52	<.010	E.006	E.006	.8	<.04	.8	14.1	.26	E.34	36.9			
May 15...	E.02	.46	E.48	<.010	<.008	E.007	.6	<.04	.6	14.9	--	--	--			
Aug 07...	.04	.41	.45	<.010	.009	.010	.6	<.04	.6	2.0	.09	<.60	33.8			

01411208 GRAVELLY RUN AT ROUTE 559, AT GRAVELLY RUN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Beryllium, water, unfiltrd recover -able, μg/L (01012)	Boron, water, unfiltrd recover -able, μg/L (01020)	Boron, water, unfiltrd recover -able, μg/L (01022)	Cadmium water, unfiltrd recover -able, μg/L (01027)	Chrom- ium, water, unfiltrd recover -able, μg/L (01034)	Copper, water, unfiltrd recover -able, μg/L (01042)	Iron, water, unfiltrd recover -able, μg/L (01045)	Lead, water, unfiltrd recover -able, μg/L (01051)	Mangan- ese, water, unfiltrd recover -able, μg/L (01055)	Mercury water, unfiltrd recover -able, μg/L (71900)	Nickel, water, unfiltrd recover -able, μg/L (01067)	Selen- ium, water, unfiltrd recover -able, μg/L (01147)	Silver, water, unfiltrd recover -able, μg/L (01077)
Nov 28...	--	11	--	--	--	--	--	--	--	--	--	--	--
Feb 05...	.19	13	13	.06	E.29	E1.2	154	.61	11.8	.016	1.8	.10	<.02
May 15...	--	15	--	--	--	--	--	--	--	--	--	--	--
Aug 07...	.07	9.4	E6	.02	<.40	<1.2	123	.23	15.1	.020	1.3	E.08	.02

WATER-QUALITY
DATA
WATER YEAR
OCTOBER 2007 TO
SEPTEMBER 2008

Part 5 of 5

[Remark codes:
<, less than;
E, estimated.]

Date	Zinc, water, unfiltrd recover -able, μg/L (01092)
Nov 28...	--
Feb 05...	12.6
May 15...	--
Aug 07...	10.4

01411208 GRAVELLY RUN AT ROUTE 559, AT GRAVELLY RUN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1-Naph-thol, water, 0.7u GF μg/L (49295)	2,6-Di-ethyl-aniline, water, 0.7u GF μg/L (82660)	2Chloro- -2',6'-diethyl acetanilide wat flt μg/L (61618)	CIAT, water, fltrd, μg/L (04040)	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, μg/L (61620)	3,4-Di-chloro-aniline water, fltrd, μg/L (61625)	3,5-Di-chloro-aniline water, fltrd, μg/L (61627)	4-Chloro- 2methyl-phenol, water, fltrd, μg/L (61633)	Aceto-chlor, water, fltrd, μg/L (49260)	Ala-chlor, water, fltrd, μg/L (46342)	alpha-Endosulfan, water, fltrd, μg/L (34362)	Atra-zine, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)
May 15...	<.04	<.006	<.010	<.014	<.010	<.006	<.008	<.005	<.006	<.006	<.006	<.007	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	Azin-phos-methyl, water, 0.7u GF μg/L (82686)	Ben-flur-alin, water, 0.7u GF μg/L (82673)	Car-baryl, water, 0.7u GF μg/L (82680)	Carbo-furan, water, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, 0.7u GF μg/L (61636)	Chlor-pyrifos water, 0.7u GF μg/L (38933)	Chlor-pyrifos water, 0.7u GF μg/L (82687)	cis-Per-methrin water, 0.7u GF μg/L (79846)	cis-Propi-conazole, water, 0.7u GF μg/L (79846)	Cyana-zine, water, 0.7u GF μg/L (04041)	Cyflu-thrin, water, 0.7u GF μg/L (61585)	Iambda-Cyhalothrin, water, 0.7u GF μg/L (61595)	Cyper-methrin, water, 0.7u GF μg/L (61586)	DCPA, water, 0.7u GF μg/L (82682)
May 15...	<.120	<.010	<.060	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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[Remark codes: <, less than; E, estimated.]

Date	Desulf- inylfipro- nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Dicro-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, 0.7u GF μg/L (82662)	Disulf-oton, sulfone water, 0.7u GF μg/L (61640)	Disul-foton, water, 0.7u GF μg/L (82677)	Endo-sulfan, sulfate water, 0.7u GF μg/L (61590)	EPTC, water, 0.7u GF μg/L (82668)	Ethion, monoxon water, 0.7u GF μg/L (61644)	Ethion, water, 0.7u GF μg/L (82346)	Etho-prop, water, 0.7u GF μg/L (82672)	Fenami-phos- sulfone water, fltrd, μg/L (61645)	
May 15...	<.012	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053	

01411208 GRAVELLY RUN AT ROUTE 559, AT GRAVELLY RUN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami-phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl- fipro- nil sulfide amide, wat flt μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)	Fipro-nil sulfone water, fltrd, μg/L (62168)	Fipro-nil sulfone water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Meta-laxyl, water, fltrd, μg/L (61596)
May 15...	<.20	<.03	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid- athion, water, fltrd, μg/L (61598)	Methyl para- oxon, water, fltrd, μg/L (61664)	Methyl para- thion, water, fltrd, 0.7u GF (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd, 0.7u GF (82671)	Myclo- butanil water, fltrd, μg/L (61599)	Oxy- fluor- fen, water, fltrd, μg/L (61600)	Pendi- meth- alin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
May 15...	<.004	<.01	<.008	E.009	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propani-l, water, fltrd, 0.7u GF (82679)	Propar-gite, water, fltrd, 0.7u GF (82685)	Simazine, water, fltrd, 0.7u GF (04035)	Tebu-thiuron water, fltrd, 0.7u GF (82670)	Teflu-thrin, water, fltrd, 0.7u GF (61606)	Terbufos sulfone water, fltrd, 0.7u GF (61674)	Terbu-fos, water, fltrd, 0.7u GF (82675)	Terbutyl- azine, water, fltrd, 0.7u GF (04022)	Thio-bencarb, water, fltrd, 0.7u GF (82681)	trans- Propi-conazole, water, fltrd, μg/L (79847)
May 15...	<.01	<.006	<.004	<.006	<.04	E.007	<.02	<.003	<.04	<.02	<.01	<.010	<.02

01411208 GRAVELLY RUN AT ROUTE 559, AT GRAVELLY RUN, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	Tri-flur-alin, phos, water, water, filtrd, filtrd, Date μg/L μg/L μg/L (61610) (82661) (38775)
May 15...	<.035 <.009 <.01